

Query Match 13.1%; Score 165; DB 7; Length 443;
 Best Local Similarity 99.5%; Pred. No. 1.5e-74;
 Matches 215; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1044 AGGTGCTGGAACACCTGAGGAGCTGACATCCATGTTTCAGCATGATGATGACATGAC 1103
 DB 33 AGGTGCTGGAACACCTGAGGAGCTGACATCCATGTTTCAGCATGATGATGACATGAC 92

QY 1104 GAGGGGCCCCGAGGGGCCCCCATGCTTCCCTTCATGATGATGATGATGATGATGATGAT 1163
 DB 93 GAGGGGCCCCGAGGGGCCCCCATGCTTCCCTTCATGATGATGATGATGATGATGATGAT 152

QY 1164 GATCCTACATCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1223
 DB 153 GATCCTACATCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 212

QY 1224 CTACGACCATTAAGACTCTGCGACATGAGAGCC 1259
 DB 213 CTACGACCATTAAGACTCTGCGACATGAGAGCC 248

RESULT 14
 LOCUS AY419146 584 bp DNA linear GSS 12-DEC-2003
 DEFINITION Pan troglodytes HCM6793 gene, VIRtual TRANSCRIPT, partial sequence,
 genomic survey sequence.
 ACCESSION AY419146
 VERSION AY419146.1 GI:39775106
 KEYWORDS GSS.
 SOURCE Pan troglodytes (chimpanzee)
 ORGANISM Pan troglodytes
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
 1 (bases 1 to 584)
 Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
 Todd,M.A., Tanenbaum,D.M., Clevello,D.R., Lu,F., Murphy,B.,
 Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
 Adams,M.D. and Cargill,M.
 Inferring nonneutral evolution from human-chimp mouse orthologous
 gene trios

REFERENCE
 AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
 Todd,M.A., Tanenbaum,D.M., Clevello,D.R., Lu,F., Murphy,B.,
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 gene trios

JOURNAL
 PUBLISHED Science 302 (5652), 1960-1963 (2003)
 14671302
 2 (bases 1 to 584)
 Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
 Todd,M.A., Tanenbaum,D.M., Clevello,D.R., Lu,F., Murphy,B.,
 Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
 Adams,M.D. and Cargill,M.
 Direct Submission
 Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
 Rockville, MD 20850, USA
 These sequences were made by sequencing genomic exons and ordering
 them based on alignment.

FEATURES
 source
 1..584
 Location/Qualifiers
 /organism="Pan troglodytes"
 /mol_type="genomic DNA"
 /db_xref="taxon:9598"
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 /locus_tag="HCM6793"

ORIGIN
 gene
 Query Match 12.5%; Score 158; DB 9; Length 584;
 Best Local Similarity 100.0%; Pred. No. 6.9e-71;
 Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 376 ATGCTGCTTCAATAGATGTTTCCCTGCTTCTCTGCTTATCTACTAGGAGT 435
 DB 1 ATGCTGCTTCAATAGATGTTTCCCTGCTTCTCTGCTTATCTACTAGGAGT 60

QY 436 GTCTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 495
 DB 61 GTCTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120

QY 496 ATGAAGCTGCGCTGATCTCTGTCATGAGAGAGAGA 533
 DB 121 ATGAAGCTGCGCTGATCTCTGTCATGAGAGAGAGA 158

RESULT 15
 LOCUS BX280396 509 bp mRNA linear EST 04-MAR-2003
 DEFINITION BX280396 NIH MGC 121 Homo sapiens cDNA clone IMAGE576987;
 ACCESSION IMAGE:576987, mRNA sequence.
 VERSION BX280396
 KEYWORDS BX280396.1 GI:28612393
 EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 509)
 Ebert,L., Heil,O., Hennig,S., Neubert,P., Patsch,E., Peters,M.,
 Radelof,U., Schneider,D. and Korn,B.
 Human Unigeneset - RZPD3
 Unpublished (2003)
 Contact: Ina Rolfs
 RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
 Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
 RZPD; IMAGE5769870412832.
 RZPDLIB; I.M.A.G.E. cDNA Clone Collection;
 Human Unigeneset - RZPD3 (RZPDLIB No.972)
 http://www.rzpd.de/CloneCards/cgi-
 bin/showLib.pl.cgi?response?libNo=972 Contact: Ina Rolfs
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 Tel: +49 30 32639 101
 Fax: +49 30 32639 111
 www.rzpd.de

REFERENCE
 AUTHORS Ebert,L., Heil,O., Hennig,S., Neubert,P., Patsch,E., Peters,M.,
 Radelof,U., Schneider,D. and Korn,B.
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 RZPD; IMAGE5769870412832.
 RZPDLIB; I.M.A.G.E. cDNA Clone Collection;
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 http://www.rzpd.de/CloneCards/cgi-
 bin/showLib.pl.cgi?response?libNo=972 Contact: Ina Rolfs
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 Tel: +49 30 32639 101
 Fax: +49 30 32639 111
 www.rzpd.de

JOURNAL
 PUBLISHED This clone is available royalty-free from RZPD;
 Contact RZPD (clone@rzpd.de) for further information. Seq primer:
 M3u, primer sequence: CGTGTAAACGACGCGCAGT.
 LOCATION/Qualifiers
 1..509
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE5769870412832 ; IMAGE:576987"
 /lab_host="DH10B"
 /clone_1lb="NIH_MGC_121"
 /note="Organ: brain; Vector: pCMV-SPORT6; Site_1: NotI;
 Site_2: EcoRV (destroyed); RNA source anonymous pool of 3
 fetal brains, female age 20 weeks, female age 24 weeks,
 and male age 26 weeks. Library is oligo-dT primed and
 directionally cloned (EcoRV site is destroyed upon
 cloning). Average insert size 1.7 kb, insert size range
 0.7-3.5 kb. Library is normalized and enriched for
 full-length clones and was constructed by C. Gruber
 (Invitrogen). Research Genetics tracking code 017. Note:
 this is a NIH_MGC Library."

ORIGIN
 Query Match 12.2%; Score 154; DB 5; Length 509;
 Best Local Similarity 100.0%; Pred. No. 8.6e-69;
 Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 349 AGCTTGAAGCGCGCAGCGCCAGAGAGAGCTGCTTCAATAGATGTTTCCCTGCT 408
 DB 356 AGCTTGAAGCGCGCAGCGCCAGAGAGAGCTGCTTCAATAGATGTTTCCCTGCT 415

QY 409 TCTCTGCTTATCTACTGAGTCAAGTCTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCT 468
 DB 416 TCTCTGCTTATCTACTGAGTCAAGTCTGCTTCCCTGCTGCTGCTGCTGCTGCTGCTGCT 475

QY 469 GAGAGGAGCGCGCTGAGAGGCAAGCCCATGAGC 502

